

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 June 2001 (07.06.2001)

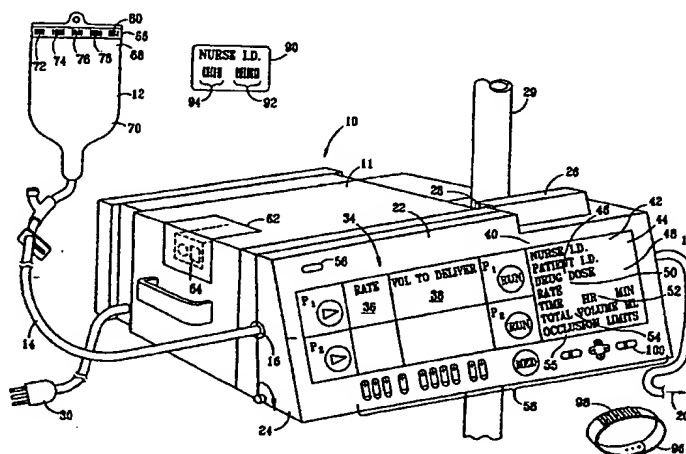
PCT

(10) International Publication Number
WO 01/39816 A3

- (51) International Patent Classification⁷: **A61M 1/00**
- (21) International Application Number: **PCT/US00/42544**
- (22) International Filing Date: **1 December 2000 (01.12.2000)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
09/452,488 **1 December 1999 (01.12.1999)** **US**
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- (81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.**
- (84) Designated States (regional): **ARIPO** patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), **Eurasian** patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), **European** patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), **OAPI** patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- (88) Date of publication of the international search report:
10 May 2002

[Continued on next page]

(54) Title: **IMPROVED SECURITY INFUSION PUMP WITH BAR CODE READER**



(57) Abstract: A medical infusion pump (10) with a bar code reader (62) having simplified and enhanced security features. The infusion pump (10) with bar code reader (62) is comprised of an infusion pump with a housing (11), a control display screen (40) and control software for operating the infusion pump according to input infusion data. A bar code reader (62) is contained in the infusion pump housing (11) and operatively attached to communicate scanned bar code infusion data to the pump display screen (40) and to the control software. At least one initialization button (56) for starting execution of a bar code scanning program is operatively connected through circuitry in the pump, the program activating the bar code reader (62) to scan for an authorized user code, for an authorized user ID code (90), for a patient ID code (72), and for infusion data (76, 78, 80) compatible for operating the infusion pump (10). Acceptable scanning of authorization code, authorized user ID code (90), patient ID code (72) and infusion data (43, 78, 80) must be manually confirmed by the authorized user prior to activating the pump to infuse fluids according to the infusion data.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/42544

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61M 1/00
US CL : 604/151;705/235

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 604/151, 181,186-189,131,890.1;705/235

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,573,994 A (FISCHELL et al.) 04 March 1986, see fig. 3 and 6, see col. 9-10	1-4
A	US 5,735,263 A (RUBSAMEN et al.) 07 April 1998, see figures 11-14 and see col.s 8, 11-12,16,26,27, 32-34.	1-4
A	Us 5,871,465 A (VASKO) 16 February 1999, see entire patent	1-4
A	US 4,706,207 A (HENNESSY et al.) 10 November 1987, see entire patent.	1-4

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

Date of the actual completion of the international search

01 June 2001 (01.06.2001)

Date of mailing of the international search report

31 JUL 2001

Name and mailing address of the ISA/US

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